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Histopathological Changes Due To The Treatment With Different Herbal Formulations In Carbon Tetrachloride Induced Hepatotoxicity In Wistar Rats

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The liver is a vital organ having a wide range of functions including detoxification, protein synthesis and production of biochemical compounds necessary for digestion. It is involved with almost all the biochemical pathways environmental toxins, drugs and alcohol which can eventually lead to various liver disorders, generally presenting as a distinct patterns of diseases such as hepatocellular, cholestatic (obstructive), or mixed type of liver disorders. Almost all types of liver injuries may lead to hepatic failure and ultimately death. Thus liver diseases are one of the most fatal diseases in the world today. Till date available modern drugs have not been able to come up with a satisfactory answer for liver disorders because of high cost and additional adverse effects. It is therefore necessary to search for alternative drugs for the treatment of liver diseases to replace the currently used drugs of doubtful efficacy and safety.

Present study is designed to overcome hepatotoxicity through herbal formulation as they are reported to possess least side effect. For which we have used three formulations [F1 (*Curcuma longa + Solanum nigrum + Allium sativum*), F2 (*Curcuma longa + Ocimum tenuiflorum + Phyllanthus embilica*) and F3 (*Curcuma longa + Solanum nigrum + Allium sativum + Ocimum tenuiflorum + Phyllanthus embilica*)] all the above mentioned herbs possesses antioxidant, hepatoprotective, cardiovascular and antidiabetic, anticancer, anti-inflammatory, antimicrobial, photoprotective and wound healing activities also. In our study when these formulations were given to the hepatotoxicity induced rats, they overcomes hepatotoxicity induced by carbontetra chloride. The histopathological results are as par to standard drug sylimarin and possess less side effects. Hence we can say that herbal preparations are better healers. As in our study after the use of formulations the recoupmennt in the histological structure of liver was observed .

Keywords: Carbon tetrachloride, Hepatotoxicity, Histopathology, Herbal formulation and Liver etc.